## IAP6 Rec'd PCT/PTO 17 FEB 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0851-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	ANSMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER Serie 6338					
	DESIGNATED/ELECTED OFFICE (DO/EO/US) CERNING A SUBMISSION UNDER 35 U.S.C. 371	U.S. APPLICATION NO (II/known see 37/CER 1.5)					
	IONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED					
	R2004/050419 September 9, 2004	September 16,2003					
TITLE OF INVENTION Device for the transfer of water and heat between two air flows and use thereof for the humidification of fuel cell inlet gas							
APPLICANT(S) FOR DO/EO/US L'Air Liquide, Société Anonyme à Directoire et Conseil de Surveillance pour l'Etude et l'Exploitation des Procédés Georges Claude							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1. L <b>X</b> J T	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. L T	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
3. Ц т	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
	The US has been elected (Article 31).						
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
	a. X is attached hereto (required only if not communicated by the International Bureau).						
	b. has been communicated by the International Bureau.						
1521	c. is not required, as the application was filed in the United States Receiving Office (RO/US).						
6. 🗶							
	a. 🔀 is attached hereto.						
	b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
	a. Lare attached hereto (required only if not communicated by the International Bureau).						
	b. have been communicated by the International Bureau.						
	c. have not been made; however, the time limit for making such amendments has NOT expired.						
	d. have not been made and will not be made.						
8. [	An English language translation of the amendments to the claims under PCT Art	ticle 19 (35 U.S.C. 371(c)(3)).					
9. 📙	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
10	An English language translation of the annexes of the International Preliminary E Article 36 (35 U.S.C. 371(c)(5)).	xamination Report under PCT					
items 1	1 to 20 below concern document(s) or information included:						
11.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.						
	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
_	A preliminary amendment.						
14.	An Application Data Sheet under 37 CFR 1.76.						
	A substitute specification.						
16.	A power of attorney and/or change of address letter.						
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.						
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(	(4) <sub>.</sub>					
19.	A second copy of the English language translation of the international application	under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

## IAP20 Rec'd PCT/FTO 17 FEB 2006

PTO-1390 (Rev. 07-2005)
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U.S. APPLICATION NO. (if known, see 37.CFR 1.5) INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER		
Not yet assigned \$ 60 7 9 1	PCT/FR2004/0	50419	Serie 6338		
20. Other items or information:					
The following fees have been submitted	CALCULATIONS	PTO USE ONLY			
21. Basic national fee (37 CFR 1.492(a))		\$300	\$ 300		
22. Examination fee (37 CFR 1.492(c))					
If the written opinion prepared by ISA/US or the interaction by IPEA/US indicates all claims satisfy provision All other situations	\$ 200				
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International IPEA/US indicates all claims satisfy provision Search fee (37 CFR 1.445(a)(2)) has been paid on the International Searching Authority	\$				
All other situations.		\$500	500		
TOTAL OF 21, 22 and 23 =  Additional fee for specification and drawings filed	1,000				
sequence listing in compliance with 37 CFR electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets  Total Sheets Extra Sheets Number of each a	1.821(c) or (e) or computer pr		\$ O		
Surcharge of \$130.00 for furnishing any of the search after the date of commencement of the national stage	\$ 130				
CLAIMS NUMBER FILED	NUMBER EXTRA	RATE	\$	<del>1</del>	
Total claims 14 - 20 =	0	x \$ 50	<b>\$</b> 0		
Independent claims 1 - 3 =	0	x \$200	\$ O		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)	\$				
	CALCULATIONS =	\$			
Applicant claims small entity status. See 37 CFR					
	\$				
Processing fee of \$130.00 for furnishing the English t claimed priority date (37 CFR 1.492(i)).	\$				
	\$				
Fee for recording the enclosed assignment (37 CFR to by an appropriate cover sheet (37 CFR 3.28, 3.31). \$	\$				
	\$				
			Amount to be refunded:	\$	
			Amount to be charged	\$ 1,130.00	

PTO-1390 (Rev. 07-2005)
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to cover the above rees is enclosed. A check in the amount of \$ ь. 🔀 Please charge my Deposit Account No. 01-1375 in the amount of \$ \$1,130.00 to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>01-1375</u>. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Linda K. Russell IP Dept. Linda K. Russell Air Liquide NAME 2700 Post Oak Blvd., Suite 1800 34,918 Houston, TX 77056 **REGISTRATION NUMBER** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE IAP20 Res'd FOILTTO 17 FEB 2006

Application No.:

Not yet assigned

Applicants:

Guillaume ROBERGE, et al.

Filed Internationally:

September 9, 2004

US National:

Herewith

Title:

DEVICE FOR THE TRANSFER OF WATER AND HEAT

BETWEEN TWO AIR FLOWS AND USE THEREOF FOR THE

**HUMIDIFICATION OF FUEL CELL INLET GAS** 

TC/A.U:

Unknown

Examiner:

Unknown

Docket No.:

**Serie 6338** 

Customer No.:

000040582

## **CERTIFICATE OF MAILING BY EXPRESS MAIL**

Mail Stop Patent Application Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

I hereby certify that the following documents, which are attached, are being deposited, under 37 CFR 1.10, with the United States Postal Service "Express Mail Post Office to Addressee" service as Express Mail No. EV 856913751 US in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on February 17, 2006.

- A copy of International Publication WO 2005/027251; 1.
- 2. English translation of International Application PCT/FR2004/050419;
- 3. Preliminary Amendment;
- 4. Transmittal Under 35 USC 371 (PTO Form 1390) Fee Sheet (in duplicate); and
- 5. Postcard.

Respectfully submitted,

Date: February 17, 2006

· Air Liquide

Houston, Texas 77056 (713) 624-8973

2700 Post Oak Boulevard, Suite 1800